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Abstract

A method and apparatus for its implementation are proposed that make it possible to eliminate redundancy in digitally represented texts with syntactic structure.

The data reduction is brought about here by parsing the message according to the rules of the underlying syntax and subsequent entropy encoding of the decisions made to select the rules. If the text is a computer program, a stack machine can be used to generate from the compressed representation either the original text or a program that can be executed directly.

Among the areas of application is the transmission of computer programs in networks with limited bandwidth.